Performance Data Sheet

AVD5540EXT

General Information

Model	AVD5540EXT	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	230V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	10100	9120					
	Watts	1390	1480					
	Amps	5.13	5.28					
	Lb/h	130	123					
-10	Btu/h	12700	11600	10200				
	Watts	1510	1620	1680				
	Amps	5.37	5.56	5.66				
	Lb/h	163	155	143				
-5	Btu/h	15500	14200	12700	11000			
	Watts	1630	1760	1830	1850			
	Amps	5.61	5.84	5.98	6.03			
	Lb/h	197	188	175	160			
0	Btu/h	18500	17000	15300	13500	11600		
	Watts	1750	1890	1980	2020	2020		
	Amps	5.85	6.11	6.29	6.39	6.41		
	Lb/h	234	224	210	194	174		
5	Btu/h	21800	20100	18200	16200	14100		
	Watts	1850	2010	2120	2190	2210		
	Amps	6.08	6.38	6.61	6.75	6.82		
	Lb/h	274	262	248	230	210		
10	Btu/h	25400	23400	21400	19200	16900	14500	12200
	Watts	1950	2130	2260	2340	2390	2410	2390
	Amps	6.29	6.64	6.91	7.10	7.22	7.27	7.24
	Lb/h	317	304	288	269	248	225	199
15	Btu/h	29200	27100	24800	22300	19900	17300	14800
	Watts	2030	2230	2380	2490	2570	2610	2620
	Amps	6.48	6.87	7.20	7.44	7.62	7.72	7.76
	Lb/h	363	349	332	312	290	265	239
20	Btu/h	33400	31000	28500	25800	23100	20400	17600
	Watts	2110	2320	2500	2630	2730	2800	2850
	Amps	6.64	7.08	7.46	7.77	8.00	8.16	8.26
	Lb/h	412	397	379	358	335	310	283

25	Btu/h	37900	35300	32500	29600	26700	23700	20800
	Watts	2170	2400	2600	2760	2890	2990	3070
	Amps	6.76	7.27	7.70	8.06	8.36	8.59	8.75
	Lb/h	465	448	429	408	384	358	330
30	Btu/h	42800	39900	36800	33700	30500	27300	24100
	Watts	2210	2470	2690	2870	3030	3160	3270
	Amps	6.85	7.41	7.91	8.33	8.69	8.99	9.22
	Lb/h	521	504	484	461	436	410	381
35	Btu/h	48000	44800	41500	38100	34700	31300	27800
	Watts	2240	2520	2770	2980	3160	3320	3470
	Amps	6.90	7.52	8.07	8.57	9.00	9.36	9.67
	Lb/h	582	563	542	519	493	466	436
40	Btu/h	53700	50200	46600	43000	39300	35500	31900
	Watts	2260	2560	2820	3060	3280	3470	3650
	Amps	6.89	7.58	8.20	8.76	9.26	9.70	10.1
	Lb/h	646	627	605	581	554	526	496
45	Btu/h	59700	56000	52100	48200	44200	40200	36300
	Watts	2250	2570	2870	3130	3370	3600	3810
	Amps	6.83	7.59	8.28	8.91	9.48	10.0	10.5
	Lb/h	715	695	672	647	620	591	560
50	Btu/h	66300	62200	58000	53800	49500	45200	41000
	Watts	2220	2570	2890	3180	3460	3720	3960
	Amps	6.71	7.54	8.30	9.01	9.66	10.3	10.8
	Lb/h	789	768	744	718	690	660	629
55	Btu/h	73300	68900	64400	59800	55300	50700	46200
	Watts	2180	2550	2890	3220	3520	3810	4100
	Amps	6.53	7.42	8.26	9.05	9.78	10.5	11.1
	Lb/h	868	846	821	794	765	735	703

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.893047E+04	-1.919107E+03	6.214891E-01	1.680058E+02
C2	9.903353E+02	1.153824E+01	-7.861261E-05	1.018267E+01
C3	1.752565E+02	7.968871E+01	1.014428E-01	2.813253E+00
C4	6.956972E+00	-2.669916E-01	-7.176993E-04	5.027220E-02
C5	-5.012421E+00	-5.834946E-02	3.839630E-04	-3.748479E-02
C6	-2.825049E+00	-4.891724E-01	-4.661889E-04	-2.839244E-02
C7	2.927050E-02	-1.772362E-03	-7.262862E-06	2.911079E-04
C8	-2.422596E-02	1.348180E-03	6.174286E-06	4.317254E-05
C9	6.490063E-03	2.354940E-03	2.497960E-06	7.851125E-05
C10	7.134159E-03	8.215913E-04	1.897977E-07	4.478287E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature